



INTERNATIONAL CIVIL AVIATION ORGANIZATION

CAR/SAM REGIONAL PLANNING AND IMPLEMENTATION GROUP

(GREPECAS)

**EIGHTH MEETING OF THE GREPECAS AERODROMES AND GROUND AIDS/
AERODROME OPERATIONAL PLANNING SUBGROUP**

(AGA/AOP/SG/8)

FINAL REPORT

Mexico City, Mexico, 19 to 21 July 2011

July 2011

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HISTORICAL

ii.1 **Duration and Site of the Meeting**

The Eighth Meeting of the GREPECAS Aerodromes and Ground Aids/Aerodrome Operational Planning Subgroup (AGA/AOP/SG/8) was held in the Conference Room of the ICAO NACC Regional Office in Mexico City, Mexico, from 19 to 21 July 2011.

ii.2 **Opening Ceremony**

Mr. George Legarreta, Chairman of the Subgroup welcomed and thanked participants for their attendance to the meeting, wishing them a successful event.

Mr. Jaime Calderón, Secretary of the AGA/AOP Subgroup, provided the opening remarks, and he made reference to the GREPECAS new organization and work methodology as well as the transformation of the Subgroup into programmes and projects. He officially opened the Eighth Meeting of the GREPECAS Aerodromes and Ground Aids / Aerodrome Operational Planning Subgroup (AGA/AOP/SG/8).

ii.3 **Organization of the Meeting**

The Meeting was conducted by Mr. George Legarreta, Chairman of the AGA/AOP Subgroup. Mr. Jaime Calderón, ICAO Regional Officer, Aerodromes and Ground Aids from the ICAO NACC Regional Office, acted as Secretary of the Meeting, assisted by Mrs. Lia Ricalde, ICAO Regional Officer, Aerodromes and Ground Aids from the ICAO SAM Regional Office.

ii.4 **Working languages**

The working languages of the meeting were Spanish and English. The documentation and the Report of the meeting were available to participants in both languages.

ii.5 **Agenda**

Agenda Item 1 Approval of the Meeting Agenda and Schedule

Agenda Item 2 Review of the actions adopted by the GREPECAS/16 Meeting

Agenda Item 3 Review of Task Force Reports

- 3.1 Report of the Runway Strips and Runway End Safety Areas (RESA) Task Force
- 3.2 Report of the Airport Demand/Capacity Task Force
- 3.3 Report of the Emergency Plans/Emergency Operations Centre (EOC) Task Force
- 3.4 Report of the AGA Aeronautical Studies Task Force
- 3.5 Report of the Adequacy of Airport Infrastructure Task Force
- 3.6 Report of the Slippery Runways (Coefficient of Friction, Runway Decontamination and Rubber Removal) Task Force

Agenda Item 4 Transformation of the AGA/AOP Subgroup and its Terms of Reference, Work Programme and Task Forces into the Aerodromes and Runway Programme and Projects

- 4.1 Development of Projects under the AGA Programme
- 4.2 Designation of officers from States as coordinators and experts for programmes and projects

Agenda Item 5 Other business**ii.6 Attendance**

The Meeting was attended by 22 participants from 11 States and 2 International Organizations Members of the AGA/AOP Subgroup. The list of participants is shown in pages from iii-1 to iii-3.

ii.7 Draft Conclusions, Draft Decisions, Decisions

DRAFT CONCLUSIONS		
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8/2	Programmes and Projects review Committee Composition	2-1

DECISIONS		
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8/4	GREPECAS Aerodromes Programme Liaison with RASG-PA	4-2

ii.8 **List of working papers**

*Refer to the meeting web page:
<http://www.lima.icao.int/MeetProg>, GREPECAS, or
<http://www.mexico.icao.int/RegionalGroups.html>, GREPECAS*

WORKING PAPERS				
Number	Agenda Item	Title	Date	Prepared and Presented by
WP/01	1	Draft Agenda, Working Method and Schedule of the AGA/AOP/SG/8 Meeting	24/06/11	Secretariat
WP/02	2	GREPECAS/16 Meeting Results	30/06/11	Secretariat
WP/03		Cancelled		
WP/04		Cancelled		
WP/05		Cancelled		
WP/06 Rev	3.4	Report of the AGA Aeronautical Studies Task Force	19/07/11	Rapporteur of Task Force
WP/07		Cancelled		
WP/08	5	Proposal of Amendment to Doc 9157, Aerodrome Design Manual, Part 4, Visual Aids – Appendix 3, Selection, Application and Removal of Paints	11/07/11	Uruguay
WP/09	4.1	Proposal of CAR/SAM Projects for Work Programme Implementation	11/07/11	Secretariat
WP/10	4.2	Designation of State's Specialists as Project Coordinators	12/07/11	Secretariat
WP/11	5	Status of SMS Implementation in the Aerodromes Field of the Cuban Civil Aviation	28/06/11	Cuba
WP/12	5	Amendment to Annex 14 – Volume II -Heliports and ICAO Manuals	28/06/11	Cuba
WP/13	5	Review to Annex 14 Volume I	28/06/11	Dominican Republic
WP/14 Rev	5	Proposal of Amendment to Doc 9157, Aerodrome Design Manual, Part 4, Visual Aids, corresponding to the Guidelines on the Application of Aircraft Stand Markings	19/07/11	Uruguay
WP/15	4.1	Project Proposal for the SAM Region	04/07/11	Secretariat
WP/16	5	Proposal for the Amendment of Annex 14, Volumes I and II, resulting from Recommendations of the Second Meeting of the Aerodromes Panel	07/07/11	Secretariat
WP/17	5	Proposal of Amendment to Annex 14 Introducing Recommendations on Taxiway Edge Markings	11/07/11	Uruguay

List of information papers

*Refer to the meeting web page:
<http://www.lima.icao.int/MeetProg>, GREPECAS, or
<http://www.mexico.icao.int/RegionalGroups.html>, GREPECAS*

INFORMATION PAPERS				
Number	Agenda Item	Title	Date	Prepared and Presented by
IP/01 Rev2	--	List of Working and Information Papers	19/07/11	Secretariat
IP/02	5	Development Process of The Latin American Aeronautical Regulation 154. (LAR-154). Requirements for Aerodrome Design	28/06/11	Cuba
IP/03	5	Aerodrome Certification Process in the Cuban Civil Aviation	28/06/11	Cuba
IP/04	5	IATA - Safety Audit for Ground Operations (ISAGO) (<i>English only</i>)	11/07/11	IATA
NI/05	5	Reglamento Aeronáutico Latinoamericano para Aeródromos y Ayudas Terrestres – Conjunto LAR AGA (<i>Spanish only</i>)	11/07/11	Uruguay
NI/06	3.3	Informe del Grupo de Tarea sobre Planes de Emergencia / Centro de Operaciones de Emergencia (COE) (<i>Spanish only</i>).	19/07/11	Colombia

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Agenda Item 1: Approval of the Meeting Agenda and Schedule

1.1 The Secretariat presented WP/01 inviting the Meeting to approve the provisional agenda and schedule of the meeting. The Meeting revised the order of the meeting schedule as presented in Appendix B to WP/01 and the agenda as presented in the Historical section of this Report, approving the agenda and schedule after interchanging Agenda item 3 and Agenda item 4.

Agenda Item 2: Review of the actions adopted by the GREPECAS/16 Meeting

2.1 The Secretariat presented to the meeting WP/02 with the results of the GREPECAS/16 Meeting, with regards to the new organization and work methodology proposed by the ICAO Regional Offices NACC and SAM and approved by the member States. The new GREPECAS mechanism aims to increase effectiveness, enhance efficiency, reduce costs and align with the new ICAO strategic objectives, programmes, projects, activities and tasks methodology.

2.2 The new GREPECAS organization is based on Programmes and Projects, the CAR and SAM Regional Officers have been designated as programme coordinators and officers from CAR and SAM States as project coordinators and project experts for the development and implementation of project tasks. The meeting selected projects for the CAR and SAM regions for the time frame until 2015 as part of the Programme: Aerodrome & Runway based on the Project Management method. In relation to the Programme title, the Meeting requested the Secretariat to rename the Programme and adopted the following Draft Decision:

DRAFT**DECISION 8/1****AERODROMES PROGRAMME TITLE**

That the Aerodrome and Runway Programme be renamed Aerodromes Programme.

2.3 Concerning the Programme and Project Review Committee (PPRC), the Meeting was informed about the PPRC responsibilities in directing the programme and project activities including the selection and removal of new programmes and projects as well as monitoring their progress. The PPRC membership includes a core group of 16 States from the CAR (8) and SAM (8) regions. The eight CAR States members were selected during the Fourth Meeting of North America, Central American and Caribbean Directors of Civil Aviation (NACC/DCA/4). The AGA SAM Regional Officer informed the Meeting that the eight SAM States PPRC members will be selected next October during the Twelfth Meeting of Civil Aviation Authorities of the SAM Region.

2.4 Regarding the PPRC members, the Meeting discussed the importance of the PPRC having available the necessary technical expertise to enable the PPRC to review projects on all air navigation areas and adopted the following Draft Decision:

DRAFT**DECISION 8/2****PROGRAMMES AND PROJECTS REVIEW COMMITTEE
COMPOSITION**

That the PPRC membership include representation to cover the technical expertise of all air navigation areas including Aerodromes.

2.5 The meeting was informed about GREPECAS Conclusion 16/49 Contribution from States to the GREPECAS Resources, and the importance of the States support to the new GREPECAS organizations, especially their contributions to the projects providing human and monetary resources.

2.6 A GREPECAS Project Management Training course has been scheduled for the Programme and Project Coordinators to be taken place in November 2011 in the SAM Regional Office in Lima, Peru.

Agenda Item 3: Review of the Task Forces Reports**3.1 Report of the Runway Strips and Runway End Safety Areas (RESA) Task Force**

3.1.1 The rapporteur of the Task Force did not attend the meeting

3.2 Report of the Airport Demand/Capacity Task Force

3.2.1 The rapporteur of the Task Force did not attend the meeting

3.3 Report of the Emergency Plans/Emergency Operations Centre (EOC) Task Force

3.3.1 The rapporteur of the Task Force informed the Meeting about the analysis, findings and recommendations for the following areas:

- Requirements assessment for infrastructure, equipment and personnel for adequate response to emergency.
- Assessment of training conditions with fuel pressure and emergency approval process, having a training center or centers for the CAR/SAM region.
- Perform activities to assist States in assessing operational best practices for proper emergency care.
- Include SMS concepts in documents and related Emergency Operations
- Evaluate ARFF vehicle requirements for RFF categories 1, 2, 3, low-cost standard.
- Defining specific responsibilities of the RFF

3.3.2 Recommendations in the different topics were related to need for personnel training and specific guidance material.

3.4 Report of the AGA Aeronautical Studies Task Force

3.4.1 The rapporteur of this Task Force presented to the meeting the Mexican experience using aeronautical studies when the aerodrome has some none conformities with standards and recommended practices (SARPs) for certification purposes. A risk analysis has to be developed to determine the Acceptable Level of Safety at the aerodrome. Certification with none conformities will be granted if the aeronautical study demonstrates the safety of aircraft operation.

3.4.2 At the request of the Meeting, the rapporteur accepted to share the Circular from the DGAC of Mexico so it can be used by any State as a reference when an aeronautical study is planned to be carried out. This Circular (CO DA_002/2010) can be found in WP/06Rev. presented to the meeting.

3.5 Report of the Adequacy of Airport Infrastructure Task Force

3.5.1 The rapporteur of the Task Force did not attend the meeting

3.6 Report of the Slippery Runways (Coefficient of Friction, Runway Decontamination and Rubber Removal) Task Force

3.6.1 The rapporteur of the Task Force did not attend the meeting

Agenda Item 4: Transformation of the AGA/AOP Subgroup and its Terms of Reference, Work Programme and Task Forces into the Aerodromes and Runway Programme and Projects

4.1 Development of Projects under the AGA Programme

4.1.1 The meeting was invited to review and make comments on the proposed projects presented by the Secretariat for CAR/SAM Regions in WP/09 and WP/15 under the Aerodrome and Runway Programme.

4.1.2 The proposed projects in WP/09 were defined as in the Regional Performance Based Air Navigation Implementation Plan (RPBANIP) as: Enhance Runway Safety, Implement Advanced Surface Movement Guidance and Control System (A-SMGCS), Airport Collaborative Decision Making (A-CDM) and Implement Airport airside Capacity analysis, Enhancement and planning (ACE) procedure.

4.1.3 The Co-Secretary mentioned to the meeting that ICAO SAM Regional Office has been working with the SAM States under a Performance-Based Air Navigation System Implementation Plan, the Aerodrome Operational Planning, including Ground Aids. As a result the strategies for achieving AGA/AOP objectives have been identified, and projects were proposed and presented in WP/15 as follows: Quality & Availability of Aeronautical Data, Aerodrome Certification, Operational Safety for Aerodromes not compliant with ICAO SARPS, Physical & Operational Characteristics Improvement for Aerodromes.

4.1.4 The Secretariat informed the Meeting about the Coordination AIM and AGA meeting that took place on July 18 with the participation of the Chairperson from each Subgroup, the Task Force Rapporteurs, the Secretaries of both Subgroups and the AIM and AGA Regional Officers from the CAR and SAM Regions, in order to review the project proposals that were presented to the Meeting.

4.1.5 After several interventions from States' representatives regarding the proposed projects presented to the meeting, there was a consensus for the following CAR/SAM projects:

1. Aerodrome certification
2. Safety assessment for non-compliant aerodromes
3. Enhance runway safety

4.1.6 Additionally, the SAM Region approved the following projects:

- Quality and availability of aeronautical data.
- Physical and operational characteristics improvement for aerodromes.

4.1.7 The above mentioned projects are specifically described in **Appendix A** to this part of the report.

4.2 Designation of officers from States as coordinators and experts for programmes and projects

4.2.1 The Secretary presented to the meeting that the proposed projects included under the AGA Work Programme requires the nomination of AGA Specialists as project coordinators for the implementation and follow-up of the tasks and their associated projects.

4.2.2 Taking into consideration the complexity of the task involved, the Meeting was invited to nominate coordinators and experts for each selected project.

4.2.3 The coordinators and experts for each of the proposed projects are listed in **Appendix B** to this part of the report. Considering GREPECAS Decision 16/49, the proposed coordinators and experts indicated the need to consult with their authorities before final acceptance. In this sense, the Meeting adopted the following Draft Conclusion:

DRAFT

CONCLUSION 8/3

STATE PROJECT COORDINATORS AND EXPERTS

That ICAO send a letter to States reinforcing GREPECAS Decision 16/49 and stress that State support for its nominated Project Coordinators and Experts is essential for the projects to achieve the expected results.

4.2.3 The Meeting also adopted the following Decision:

DECISION 8/4

GREPECAS AERODROMES PROGRAMME LIAISON WITH RASG-PA

That the CAR Region Coordinator of the Enhance Runway Safety Project be the liaison between the GREPECAS Aerodromes Programme and RASG-PA and any other Regional Runway Safety body.

APPENDIX A

REVISION DEL PROGRAMA DE TRABAJO / REVIEW OF THE WORK PROGRAMME

PROYECTOS CAR/SAM / CAR/SAM PROJECTS

PROGRAMME/PROGRAMA: **F: Aerodrome and Runway / Aeródromo y Pista.**

PROJECT/PROYECTO: **F1: Aerodrome Certification / Certificación de Aeródromos**

**PROJECT COORDINATOR CAR/
COORDINADOR DEL PROYECTO CAR:** **Mr. / Sr. Norberto Cabrera (IACC - Cuba)**

No.	Tarea/Task	Inicio-Fin / Start – End	Responsable / Responsible	Estado / Status	Entregable / Deliverable
1	2	3	4	5	6
F.1.1	Identificar el nivel de implementación del proceso de certificación de aeródromos / Identify the level of implementation of the aerodrome certification process	2011-2012	Coordinador del Programa / Programme Coordinator	Válida /valid	Informe del nivel de implementación del proceso de certificación de aeródromos / Report on the level of implementation of the aerodrome certification process.
F.1.2	Desarrollar un plan de acción enfocado en los problemas comunes de la región en la certificación de aeródromos / Develop of an action plan addressing common aerodrome certification issues in the región.	2012-2012	Proyecto F1 / Project F1	Válida /valid	Plan de acción / Action Plan
F.1.3	Identificar las necesidades de instrucción y elaborar programas de instrucción pertinentes. / Identify training needs and prepare training programmes accordingly.	2012-2013	Proyecto F1 / Project F1	Válida /valid	Informe de las necesidades de instrucción y programas de instrucción de acuerdo a lo requerido / Report on the training needs and training programmes as determined

PROJECT COORDINATOR SAM/

COORDINADOR DEL PROYECTO SAM: Mr. / Sr. Carlos García Pepe (DINACIA - Uruguay)

No.	Tarea/Task	Inicio-Fin / Start – End	Responsable / Responsible	Estado / Status	Entregable / Deliverable
1	2	3	4	5	6
F1.5	Desarrollar el Reglamento Aeronáutico Latinoamericano para Aeródromos (LAR-AGA) y el Manual de Inspector de Aeródromos (MIAGA) /Development of Latin American Aerodromes Regulations (LAR-AGA) and the Aerodromes Inspector Manual (MIAGA).	(*) - 2011	Proyecto Regional / Regional Project	Válida / Valid	Conjunto LAR AGA y MIAGA / LAR AGA and MIAGA package
F1.6	Armonizar la reglamentación de los estados con el LAR-AGA / Harmonise national regulations of States with LAR-AGA.	2012 - 2015	Estados / States	Válida/ Valid	Estados armonizados con LAR AGA / State harmonized with LAR AGA
F1.7	Capacitar inspectores de aeródromos regionales con el MIAGA / Train regional aerodrome inspectors with the MIAGA.	(*) – 2015	Proyecto Regional / Regional Project.	Válida/ Valid	Programa de Capacitacion para Inspectores de Aerodromos / Aerodrome Inspectors Training Programme
F1.8	Establecer un proceso de auditorías internas en los aeródromos por los operadores, basadas en el SMS / Establish a process of internal audits at aerodromes by operators based in SMS	(*) – 2015	Estados / States	Válida/ Valid	Guía de Auditorías internas para Aeródromos / Internal Audit Guide for Aerodromes
F1.9	Validar de los certificados de aeródromos otorgados antes de la armonización con el LAR-AGA / Validate aerodrome certificates granted before harmonization with LAR AGA	2015 – 2018+	Estados / States	Válida/ Valid	Re-certificación de aeródromos certificados /Re-certification of certified aerodromes
F1.10	Vigilancia del proceso de certificación / Surveillance of the certification process	2012 – 2018+	GREPECAS	Válida/ Valid	Guía de vigilancia / Surveillance Guide

PROJECT/PROYECTO:

F2: Safety Assessment for Non-compliant Aerodromes
Evaluación de la Seguridad Operacional para Aeródromos con no-conformidades

PROJECT COORDINATOR CAR/

COORDINADOR DEL PROYECTO CAR: Ms. / Srta. Francia Peña (IDAC - República Dominicana / Dominican Republic)

PROJECT COORDINATOR SAM/

COORDINADOR DEL PROYECTO SAM: Mr. / Sr. Tárik Pereira de Souza (ANAC - Brasil)

No.	Tarea/Task	Inicio-Fin / Start – End	Responsable / Responsible	Estado / Status	Entregable / Deliverable
1	2	3	4	5	6
F.2.1	Identificar los Aeropuertos Regionales con características físicas y operacionales que no cumplen con las SARPS de OACI / Identify the regional airports with physical and operational characteristics that do not comply with ICAO SARPs.	(*) – 2012	Proyecto Regional / Regional Project	Valida / Valid	Informe de Aeródromos que no cumplen SARPS / Report of Aerodromes not complying with SARPS
F.2.2	Desarrollar un procedimiento para la certificación con desviaciones, que incluya orientaciones para la evaluación de las no conformidades / Develop a procedure for certification with deviation, including orientations for the evaluation of the non-conformities..	(*) - 2013	Proyecto Regional / Regional Project	Valida / Valid	Guía para la certificación de aeródromos que no cumplen SARPS / Guide for aerodrome certification that do not comply with SARPS
F.2.3	Implementar el procedimiento para la certificación con desviaciones / Implement the procedure for certification with deviations.	2013 - 2018	Estados / States	Valida / Valid	Numero de aeródromos certificados con desviaciones / Number of aerodromes certified with deviations

PROJECT/PROYECTO: F3: Enhance Runway Safety / Mejorar la Seguridad Operacional en la Pista

**PROJECT COORDINATOR/
COORDINADOR DEL PROYECTO CAR:** Mr. / Sr. George Legarreta (FAA - USA)

**PROJECT COORDINATOR/
COORDINADOR DEL PROYECTO SAM:** Mr. / Sr. Alfredo Chavez Baca (DGAC – Peru)

No.	Tarea/Task	Inicio-Fin / Start – End	Responsable / Responsible	Estado / Status	Entregable / Deliverable
1	2	3	4	5	6
F3.1	Desarrollar un plan de gestión de seguridad de la superficie de las pistas / Develop a plan for runway surface safety management.	(*) – 2012	Proyecto Regional / Regional Project	Válida / Valid	1. Estrategia CAR/SAM de prevención para Excursiones de Pista. 1. CAR/SAM strategy for the prevention of Runway Excursions. 2. Estrategia CAR/SAM de prevención para Incursiones de Pista. 2. CAR/SAM strategy for the prevention of Runway Incursions.
F3.2	Establecer medidas de seguridad operacional en pistas para prevenir y mitigar accidentes e incidentes serios en pistas. Establish runway safety measures to prevent and mitigate runway-related accidents and serious incidents.	Agosto 2012 – Dic. 2013	Estados/ States	Válida / Valid	Implementar medidas basadas en estrategias. Implement actions based on strategies.
F3.3	Desarrollar guías de vigilancia para la implantación del plan de gestión regional / Develop guidelines for the implementation of the regional management surveillance plan.	(*) – 2018+	GREPECAS	Válida / Valid	Guía para vigilar la implantación del plan de gestión regional / Guidance material for surveillance of the implementation of the regional management plan

PROYECTOS SAM / SAM PROJECTS

PROGRAMME/PROGRAMA: F: Aerodrome and Runway / Aeródromo y Pista

PROJECT/PROYECTO: F4: Quality & Availability of Aeronautical Data / Calidad y Disponibilidad de los Datos Aeronáuticos

**PROJECT COORDINATOR/
COORDINADOR DEL PROYECTO:** Mr. / Sr. Oscar Nieto (AEROCIVIL - Colombia)

No.	Tarea/Task	Inicio-Fin / Start – End	Responsable / Responsible	Estado / Status	Entregable / Deliverable
1	2	3	4	5	6
F4.1	Desarrollar un plan de acción regional para actualizar la calidad de la información contenida en el Documento 8733 Plan de Navegación de la Región CAR/SAM, Vol. II FASID, Tabla AOP1 / Develop a regional action plan to update the information contained in Document 8733 CAR/SAM Navigation Plan, Vol. II FASID, Table AOP1	(*) - 2018	GREPECAS	Valida / Valid	Plan de Acción Regional / Regional Plan of Action
F4.2	Establecer e implementar un proceso que asegure la provisión de datos aeronáuticos por el operador aeroportuario al AIM, con los requisitos de calidad correspondientes / Establish and implement a process to assure the provision of aeronautical data to AIM by the airport operator with the corresponding quality requirements.	(*) - 2018	Estados / States	Valida / Valid	Datos aeronáuticos al AIM / AIM aeronautical data
F4.3	Actualizar los datos de obstáculos de aeródromos en el sistema WGS-84 / Update aerodrome obstacle data in the WGS-84.	(*) - 2018	GREPECAS	Valida / Valid	Datos de obstáculos con sistema WGS-84 / WGS-84 system obstacles data

PROGRAMME/PROGRAMA:**F: Aerodrome and Runway / Aeródromo y Pista****PROJECT/PROYECTO:****F5: Physical & Operational Characteristics Improvement for Aerodromes / Mejoras de las Características Físicas y Operacionales del Aeródromo****PROJECT COORDINATOR/****COORDINADOR DEL PROYECTO:****Mr. / Sr. Edwilson Sena Dos Santos (DECEA - Brasil)**

No.	Tarea/Task	Inicio-Fin / Start – End	Responsable / Responsible	Estado / Status	Entregable / Deliverable
1	2	3	4	5	6
F5.1	Desarrollar los procedimientos para cálculo de la capacidad de los aeródromos / Develop procedures for the calculation of aerodromes capacity.	2011* – 2012	Proyecto Regional / Regional Project	Válida / Valid	Guía para calculo de capacidad de aeródromos / Guidance material for Aerodrome capacity calculation
F5.2	Capacitar instructores para replicar los procedimientos de cálculo de capacidad / Train instructors to replicate procedures for calculation of capacity	2011* – 2012	Proyecto Regional / Regional Project	Válida / Valid	Curso desarrollado para instructores del curso de cálculo de capacidad para aerodromos / Course development for instructors for aerodrome capacity calculation course
F5.3	Implementar los procedimientos de cálculo de capacidad y evaluar los aeródromos cuya capacidad instalada se encuentra próximo a saturación / Implement procedures for calculation of capacity and assess the aerodromes whose installed capacity is near saturation	2011* - 2012	Estados / States	Válida / Valid	Numero de Estados con capacidad de aerodromos calculada / Number of States with aerodrome capacity calculated
F5.4	Desarrollar procedimientos para optimizar la capacidad de pista y plataformas de aeródromos / Develop procedures to optimise aerodrome runway and apron capacity.	(*) – 2013	Proyecto Regional / Regional Project	Válida / Valid	Mejores practicas para optimizacion de la capacidad de pistas y plataformas / Best practices for RWY, TWY & aprons capacity optimization
F5.5	Desarrollar procedimientos de gestión ambiental en coordinación con los Comités Regionales / Develop environmental management procedures in coordination with the Regional Committees.	2011* - 2018	Proyecto Regional / Regional Project	Válida / Valid	Guías para gestión ambiental en aerodromos / Guideline material for environmental protection at the aerodromes
F5.6	Aplicar los procedimientos para la optimización de la capacidad de la pista y plataformas de aeródromos / Apply procedures for optimising aerodrome runway and apron capacity.	2013-2018	Estados / States	Válida / Valid	Numero de aeropuertos con capacidad de pistas y plataformas optimizada / Number of airports with optimized capacity at the RWY, TWY & apron

No.	Tarea/Task	Inicio-Fin / Start – End	Responsable / Responsible	Estado / Status	Entregable / Deliverable
1	2	3	4	5	6
F5.7	Establecer, en coordinación con CNS, los requisitos aplicables a los operadores de aeródromo para la implantación de sistemas de guía y control del movimiento en la superficie / Establish, in coordination with CNS, requirements to be applied to aerodromes operations for the implementation of surface movement guide and control systems.	2012 – 2013	Proyecto Regional / Regional Project	Válida / Valid	Guías para implantación de los sistemas de control de movimiento de superficie AGA/CNS / Guidance material for the implementation of surface movement guide and control systems by AGA/CNS
F5.8	Monitorear la optimización de capacidad de pistas y plataformas / Monitor the optimisation of runway and apron capacity	(*) – 2018	GREPECAS	Válida / Valid	Guías para la vigilancia de la optimización de capacidad de pistas y plataformas / Guidance material for the monitoring of the optimized capacity for RWY, TWY & apron

APPENDIX B / APÉNDICE B**CAR/SAM PROJECTS / PROYECTOS CAR/SAM**

- F. PROGRAMME:** Aerodrome and Runway
PROGRAMA: Aeródromo y Pista
Coordinator/Coordinador: ICAO / OACI
- F1 PROJECT:** Aerodrome Certification
PROYECTO: Certificación de Aeródromos
CAR Coordinator/
Coordinador CAR: Mr. / Sr. Norberto Cabrera Tel.: + 838-1127
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**SAM Coordinator/
Coordinador SAM:**

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Mr. / Sr. Giovano Palma (ANAC, Brasil)	Tel.: +55 61 3314 4466 E-mail giovano.palma@anac.gov.br
Mr. / Sr. Emilio Rodríguez Almada (DINAC, Paraguay)	Tel. + 5959-81577998 E-mail svgparaguay@hotmail.com

- F. PROGRAMME: Aerodrome and Runway**
PROGRAMA: Aeródromo y Pista
Coordinator/Coordinador: ICAO / OACI
- F2 PROJECT: Safety Assesment for Non-compliant Aerodromes**
PROYECTO: Evaluación de la Seguridad Operacional para Aeródromos con no-conformidades
- CAR Coordinator /** Ms. / Sra. Francia Peña Tel.: + 809 274 4322 Ext. 2306
Coordinador CAR: (Dominican Republic/República Dominicana) E-mail: fpena@idac.gov.do

Experts/Expertos:

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Felix Estrada Guatemala	Tel.: + 502 2321 5329 E-mail filo_estrada@hotmail.com
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- SAM Coordinator/** Mr. / Sr. Tárík Pereira de Souza Tel.: + 55 24 3501 5819
Coordinador SAM: (ANAC – Brazil/Brasil) E-mail: Tarik.souza@anac.gov.br

Experts/Expertos:

Carlos Garcia Pepe (DINACIA, Uruguay)	Tel.: +005982-604-0408 Int. 4519 E-mail carlos.gpp@gmail.com
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- F. PROGRAMME: Aerodrome and Runway**
PROGRAMA: Aeródromo y Pista
Coordinator/Coordinador: ICAO / OACI
- F3 PROJECT: Enhance Runway Safety**
PROYECTO: Mejorar la Seguridad Operacional en la Pista
- CAR Coordinator /** Mr. / Sr. George Legarreta Tel.: + 202-267-8766
Coordinador CAR: (United States/Estados Unidos) E-mail: george.legarreta@faa.gov

Experts/Expertos:

To be determined / Por determinar *	Tel.: + E-mail
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Coordinador SAM: (DGAC - Peru) E-mail: achavez@mintc.gob.pe

Experts/Expertos:

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* to be nominated in consultation with States / a ser nominados en consulta con los Estados

SAM PROJECTS / PROYECTOS SAM

- F. PROGRAMME:** Aerodrome and Runway
PROGRAMA: Aeródromo y Pista
Coordinator/Coordinador: ICAO / OACI
- F4 PROJECT:** Quality & Availability of Aeronautical Data
PROYECTO: Calidad y Disponibilidad de los Datos Aeronáuticos
Coordinator/Coordinador: Mr. / Sr. Oscar Nieto (AEROCIVIL, Colombia) Tel.: + 3116-30-3899
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oscar.nieto@msn.com

Experts/Expertos:

To be determined / Por determinar *	Tel.: E-mail
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- F. PROGRAMME:** Aerodrome and Runway
PROGRAMA: Aeródromo y Pista
Coordinator/Coordinador: ICAO / OACI
- F5 PROJECT:** Physical & Operational Characteristics Improvement for Aerodromes
PROYECTO: Mejoras de las Características Físicas y Operacionales del Aeródromo
Coordinator/Coordinador: Mr. / Sr. Edwilson Sena Dos Santos (DECEA, Brazil/Brasil) Tel.: + 5521 2101-6272
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* to be nominated in consultation with States / a ser nominados en consulta con los Estados

Agenda Item 5: Other Business

5.1.1 The Meeting was recalled on States letters AN 4/1.1.51-11/31 dated 20 April 2011, Ref. Proposal for the amendment of Annex 14, Volume II concerning Heliports and State letter AN 4/1.1.52-11/41 dated 30 May 2011, Ref: Proposal for the amendment of Annex 14, Volume I, which were sent to States for comments, and it was mentioned that the proposed amendment to Annex 14, Volume I will be applicable on 15 November 2012.

5.1.2 The proposal for the amendment of Annex 14, Volume II, is focus on the second part of the review which consists in two parts for updating the document, as was mentioned by the Secretary. There are several proposals covering various topics, such as definitions, heliports information, physical characteristics, obstacle restriction and removal and visual aids, and the the proposed amendment to Annex 14, Volume II is envisaged for applicability on 15 November 2012.

5.1.3 Uruguay presented WP08 "*Proposal of amendment to Doc. 9157, Aerodrome Design Manual, Part 4, Visual Aids – Appendix 3, Selection, Application and Removal of Paints.*" The representative from IFALPA commented on the importance not only of the paint type but also on the paint removal techniques that should be used before any new painting.

5.1.4 The meeting agreed that there is sufficient ICAO information on the conditions under which retro-reflective markings are to be used, as well as glass bead specifications, but does not contain specifications concerning maintenance or the measurement of the coefficient of retro-reflection. Before proposing an amendment to Doc.9157, Part 4, it has been recommended to include this topic in the Visual Aids workshop agenda to be held in Lima, Peru early next year.

5.1.5 WP11 presented by Cuba "*Status of SMS Implementation in Aerodromes - Cuban Civil Aviation,*" highlights the advances made by Cuban Civil Aviation in SMS implementation for Aerodrome certification. Colombia commented also on the difficulties AEROCIVIL is facing for SMS implementation and the support received from the Concessionaire groups. Dominican Republic has planned to initiate aerodrome certification soon and recommended the development of guidance material on SMS implementation for Aerodromes.

5.1.6 An "*Amendment to Annex 14 – Volume II –Heliports and ICAO Manuals*" (WP/12) has been proposed by Cuba to remove the use of halogenated hydrocarbons and CO₂ from the indicated document. Cuba also mentioned that the latest amendment proposal from the Aerodromes Panel (AP) distributed to the States for comments on April 20, 2011 and presented by the Secretariat on WP16, does not include the amendment proposed in this working paper.

5.1.7 The Meeting agreed and adopted the following Draft Conclusion:

**DRAFT
CONCLUSION 8/5****PROPOSAL FOR AMENDMENT TO ANNEX 14 -
AERODROMES**

That ICAO consider the following proposals for amendment to Annex 14 – Aerodromes:

1. Delete from Annex 14, Volume II Heliports, Chapter 6 “Heliports Services”, Table 6-2 and 6-3 the complementary agents composed of halogenated hydrocarbons and CO₂, as have been deleted from Annex 14, Volume I, considering they are ozone-depleting substances.
2. Delete from the Airports Service Manual, Part 1 “Rescue and Fire Fighting”, Table 2-2, Minimum usable amounts of extinguishing agents, complementary agents composed by halogenated hydrocarbons and CO₂, taking into account that there is no correlation between Table 9-2 of Volume I, Annex 14 and Table 2-2 of this manual, and review and amend all information related to complementary extinguishing agents that are considered to be ozone-depleting substances.
3. Delete from the Heliports Manual, Doc. 9261, Chapter 6, Table 6.2 and 6.3, the complementary agents composed by halogenated hydrocarbons and CO₂.

5.1.8 Working Paper 13 presented by Dominican Republic “*Review to Annex 14 Volume I,*” recommended a feasibility study for specifying the radius of the Conical Surface, as it is for the inner horizontal surface in order to clarify the meaning of the real altitude that this conical surface must reach, from its definition and content in Table 4-1, on Dimensions and slopes of Obstacle Limitation Surfaces. Cuba, Guatemala and Colombia commented about the experiences in their States when calculating Obstacle Restrictions for airports. The Secretariat recommended requesting clarification to headquarters on this issue.

5.1.9 The “*Proposal of Amendment to Doc 9157, Aerodrome Design Manual, Part 4, Visual Aids, corresponding to the Guidelines on the Application of Aircraft Stand Markings*” (WP/14) presented by Uruguay, indicates the need for guidance material on aircraft stand markings. In order to optimize aerodrome apron capacity, it is recommended that existing texts be modified, incorporating the texts and illustrations proposed in Annex A to WP14 which are based in the experience from AENA (Spain). IFALPA agreed about the need for guidance material on aircraft stand markings to improve safety from the operator point of view. The meeting would like more information in this matter. It has been suggested to include also this topic in the Visual Aids Workshop to be taken place in Lima next year.

5.1.10 The Working Paper 17, also from Uruguay “*Proposal of Amendment to Annex 14 Introducing Recommendations on Taxiway Edge Markings*” brought much discussion between States and operators. Colombia considers that current SARPS provide enough safety for aircraft operations and the proposed amendment will increase just cost for the airport operators, while IFALPA considers that this amendment will increase safety for aircraft operators. The meeting recommended including this topic also in the Visual Aids Workshop to be taken place in Lima next year.

5.1.11 Finally, the meeting took note of IATA's experience on their programme for the certification of ground service providers ISAGO (IATA Safety Audit for Ground Operators), and the meeting was also invited to make use of the audit reports in order to enhance their surveillance capabilities and to contact IATA for additional information on this programme when required.